# United States Patent and Trademark Office

IN



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

OTICE OF ALLOWANCE AND FEE(S) DUE

12/21/2006

CANTOR COLBURN, LLP 55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002

23413

EXAMINER

EDWARDS JR, TIMOTHY

ART UNIT PAPER NUMBER

2612

DATE MAILED: 12/21/2006

•	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/725,353	12/01/2003	Jorg Lehr	INT-0005	1316

TITLE OF INVENTION: ROTATIONAL PULSATION SYSTEM AND METHOD FOR COMMUNICATING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	03/21/2007

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

appropriate. All further	correspondence includired below or directed other	ng the E	Patent, advance or	ders and notification	of m orres	naintenance fees woondence address;	rill be and/or	mailed to the current of the current	ould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				-	Fee(s	s) Transmittal. Thi rs. Each additional	s certif I paper	icate cannot be used for	domestic mailings of the or any other accompanying at or formal drawing, must
23413 CANTOR COL 55 GRIFFIN RO BLOOMFIELD,	LBURN, LLP AD SOUTH	/2006				Cert	tificate	of Mailing or Transn	nission deposited with the United t class mail in an envelope above, or being facsimile te indicated below.
						7			. (Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	TOR		АТТО	RNEY DOCKET NO.	CONFIRMATION NO.
10/725,353	12/01/2003			Jorg Lehr				INT-0005	1316
TITLE OF INVENTION:									·
APPLN. TYPE	SMALL ENTITY	ISS	SUE FEE DUE	PUBLICATION FEE I	ŅUΕ	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1400	\$300		\$0		\$1700	03/21/2007
EXAM	INER		ART UNIT	CLASS-SUBCLASS	S				
EDWARDS JF	R, TIMOTHY		2612	340-853100				•	
CFR 1.363).  Change of corresponded from PTO/SB Address form PTO/SB "Fee Address" indi PTO/SB/47; Rev 03-0. Number is required.  ASSIGNEE NAME AI PLEASE NOTE: Unle	i in 37 CFR 3.11. Comp	nge of ( " Indica led. Use A TO Bi	Correspondence tion form of a Customer E PRINTED ON Tolow, no assignee	data will annear on t	up to mativ single or ag attor Il be p or typ- he pa g an a	3 registered patentely, firm (having as a gent) and the namentely or agents. If printed.  e) tent. If an assignessignment.	membes of up	er a 2 p to lee is 3	cument has been filed for
	-	categoi	ries (will not be pr			•		ŕ	up entity Government
4a. The following fee(s) a  Issue Fee Publication Fee (N Advance Order - #	ore submitted:  o small entity discount p	ermitte	d)	☐ A check is enclos☐ Payment by cred☐ ☐ The Director is he	sed. it card	I. Form PTO-2038	is atta	required fee(s) any def	ŕ
a. Applicant claims	us (from status indicated SMALL ENTITY statu	ıs. See 3	37 CFR 1.27.		_	_		ΓΙΤΥ status. Şee 37 CF	
NOTE: The Issue Fee and nterest as shown by the re	I Publication Fee (if reque cords of the United Sta	uired) w tes Pate	vill not be accepted nt and Trademark	from anyone other the Office.	han th	e applicant; a regis	stered a	attorney or agent; or the	e assignee or other party in
Authorized Signature						Date	-		
Typed or printed name				Registration No.					
This collection of information application. Confident submitting the completed his form and/or suggestic 30ox 1450, Alexandria, Virginia 2231	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bur reginia 22313-1450. DO 3-1450.	FR 1.31 U.S.C. USPTO den, sh	11. The information 122 and 37 CFR O. Time will vary ould be sent to the SEND FEES OR C	n is required to obtain 1.14. This collection in depending upon the Chief Information COMPLETED FORM	or reis esti indivi Officer IS TO	etain a benefit by the mated to take 12 ndual case. Any con the control of the control that the control of the control of the that the control of the contro	ne publ ninutes mment Fradem . SENI	ic which is to file (and to complete, including s on the amount of tim nark Office, U.S. Depar D TO: Commissioner for	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

PTOL-85 (Rev. 07/06) Approved for use through 04/30/2007.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/725,353	12/01/2003	Jorg Lehr	INT-0005	1316		
23413 75	90 12/21/2006		EXAM	NER		
CANTOR COLB	URN, LLP	EDWARDS JE	EDWARDS JR, TIMOTHY			
55 GRIFFIN ROAL			· ART UNIT	PAPER NUMBER		
BLOOMFIELD, CT 06002			2612 DATE MAIL ED: 12/21/2006			

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 391 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 391 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/725,353	LEHR, JORG
Notice of Allowability	Examiner	Art Unit
•	Timothy Edwards, Jr.	2612
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this a 5) or other appropriate communication. RIGHTS. This application is subject	pplication. If not included on will be mailed in due course. <b>THIS</b>
1. X This communication is responsive to amendment of Nove	ember 6, 2006.	
2. ☑ The allowed claim(s) is/are <u>1-25</u> .		
<ul> <li>3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which git including changes required by the Notice of Draftspeed 1) hereto or 2) to Paper No./Mail Date</li></ul>	ve been received. ve been received in Application No. locuments have been received in thi  " of this communication to file a rep IMENT of this application.  mitted. Note the attached EXAMINE ives reason(s) why the oath or decla ust be submitted. erson's Patent Drawing Review ( PTo  er's Amendment / Comment or in the 1.84(c)) should be written on the draw in the header according to 37 CFR 1.12 posit of BIOLOGICAL MATERIAL	is national stage application from the ly complying with the requirements  ER'S AMENDMENT or NOTICE OF tration is deficient.  O-948) attached  Office action of the back) of the local control of the
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informa 5. ☐ Interview Summa Paper No./Mail I 7. ☐ Examiner's Amer	I Patent Application ary (PTO-413), Date

Application/Control Number: 10/725,353

Art Unit: 2612

#### **DETAILED ACTION**

# Allowable Subject Matter

- 1. Claims 1-24 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: with respect to claims 1-11, Examiner maintains allowability as cited in office action dated August 15, 2006. With respect to claims 12-22 the closest prior art Chin et al USP 5,740,126 fails to teach or suggest spinning a rotational pulsation system to create a first set of frequencies; applying an electrical load to the system to modify the first set of frequencies to a second respective set o frequencies; adjusting a difference between a first frequency of the first set of frequencies and one of a second frequency of the first se of frequencies and a first frequency of the second set of frequencies. With respect to claims 23-25 he closest prior art Chin et al fails to teach or suggest spinning a rotational pulsation system having multiple systems each system creates a same first and second frequency thereby creating a constructive interference at each frequency or each system creating multiple frequencies and applying an electrical load to the system to modify the multiple frequencies.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/725,353

**Art Unit: 2612** 

Any inquiry concerning this communication should be directed to Examiner Timothy Edwards, Jr. at telephone number (571) 272-3067. The examiner can normally be reached on Monday-Thursday, 8:00 a.m.-6:00 p.m. The examiner cannot be reached on Fridays.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber, can be reached at (571) 272-7308.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-4700, Mon-Fri., 8:30 a.m.-5:00 p.m.

Any response to this action should be fax to:

(571) 273-8300 (for formal communications intended for entry).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov or contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Timothy Edwards, Jr.

Primary Examiner

December 18, 2006

Alexandria, VA 22313-1450 If Undeliverable Return in Ten Days OFFICIAL BUSINESS PENALTY FOR PRIVATE USE, \$300

AN EQUAL CPPORTUNITY EMPLOYER

DEC 29 2036 USPTO MAIL COLLEGE

BEST AVAILABLE COPY